

UNCLASSIFIED

AD NUMBER	
ADC800513	
CLASSIFICATION CHANGES	
TO:	unclassified
FROM:	secret
LIMITATION CHANGES	
TO:	Approved for public release; distribution is unlimited.
FROM:	Distribution authorized to DoD only; Administrative/Operational Use; 01 OCT 1945. Other requests shall be referred to Air Force Materiel Command, Wright-Patterson AFB, OH 45433-6503. Pre-dates formal DoD distribution statements. Treat as DoD only.
AUTHORITY	
WHS ltr dtd 31 Mar 2011; WHS ltr dtd 31 Mar 2011	

THIS PAGE IS UNCLASSIFIED

Reproduction Quality Notice

This document is part of the Air Technical Index [ATI] collection. The ATI collection is over 50 years old and was imaged from roll film. The collection has deteriorated over time and is in poor condition. DTIC has reproduced the best available copy utilizing the most current imaging technology. ATI documents that are partially legible have been included in the DTIC collection due to their historical value.

If you are dissatisfied with this document, please feel free to contact our Directorate of User Services at [703] 767-9066/9068 or DSN 427-9066/9068.

Do Not Return This Document
To DTIC



UNCLASSIFIED
S [REDACTED]
DEPARTMENT OF DEFENSE
WASHINGTON HEADQUARTERS SERVICES
1155 DEFENSE PENTAGON
WASHINGTON, DC 20301-1155



MEMORANDUM FOR DEFENSE TECHNICAL INFORMATION CENTER

(ATTN: WILLIAM B. BUSH)
8725 JOHN J. KINGMAN ROAD, STE 0944
FT. BELVOIR, VA 22060-6218

MAR 3 2002

SUBJECT: OSD MDR Cases 11-M-1010, -1011, -1013, -1014, -1015, and -1026

We have reviewed the attached documents and have no objection to declassification in full. The information you requested is provided in the table below:

OSD Case Number 11-M-	Current Controlling Agency	Current Controlling Official	Current Distribution Control Statement	Current Overall Classification Level	Current Downgrading Instructions	Current Declass. Instructions
1010	WHS	OSD Records Official	A Release Unlimited	S	N/A	N/A
1011	WHS	OSD Records Official	A Release Unlimited	C	N/A	N/A
1013	WHS	OSD Records Official	A Release Unlimited	C	N/A	N/A
1014	WHS	OSD Records Official	A Release Unlimited	C	N/A	N/A
1015	WHS	OSD Records Official	A Release Unlimited	S	N/A	N/A
1026	WHS	OSD Records Official	A Release Unlimited	S	N/A	N/A

If you have any questions, contact me by phone at 703-696-2197 or by e-mail at storer.robert@whs.mil or robert.storer@whs.smil.mil.

Robert Storer

Enclosures:

1. DTIC request
3. Six documents

Robert Storer
Chief, Records and Declassification Division

UNCLASSIFIED [REDACTED]



**Reproduced by
AIR DOCUMENTS DIVISION**



**HEADQUARTERS AIR MATERIAL COMMAND
WRIGHT FIELD, DAYTON, OHIO**

11-M-1010, R-1

REEL - C

74

A.T.I.

2 4 1 8

SECRET

1 October 1945

10

12-2

GROUND TO AIR PILOTLESS AIRCRAFT

Table of Contents

	<u>Section Number</u>	<u>Date of Revision</u>
Summary only	12-2-1	1 Oct 1945

SECRET

X-135461-AA - 2

SECRET

ATT NO. 2418

GROUND TO AIR PILOTLESS AIRCRAFT

Air Documents Division, T-2

AMC, Wright-Patterson AFB

SUMMARY

Microfilm No. 12-2-1
R C-74 F 2418 1 October 1945

1. Description - The Bell Telephone Laboratories on 14 May 1945 completed a three months' design study of the problems connected with the design and control of a ground to air pilotless aircraft capable of destroying a very heavy bombardment aircraft traveling at a speed of 600 mph at an altitude of 60,000 ft. desired or 40,000 ft. required. This study was made under a contract jointly with the Air Technical Service Command and the Army Service Forces, Ordnance Department. The results of this study were presented verbally in a meeting held at Washington, D. C., 14 May 1945. The formal report was distributed during July 1945.

On May 15, 1945, under contract from the Air Technical Service Command, the Boeing Aircraft Corporation began a three months' design study leading to the proposal of a design for a ground to air pilotless aircraft. This study included the results of the Bell Telephone Laboratory contract and all other related projects. Boeing completed their study and presented their final report to Air Technical Service Command on 20 September 1945, and to HQ., AAF on 26 September 1945.

This pilotless aircraft will probably be designed to operate at supersonic speeds. It is expected to employ a jet-assisted take-off unit of some type and will undoubtedly be rocket or jet propelled after launching. Various types of control systems are under consideration; however, some form of radar control looks to be the most promising.

2. Dates - The project was initiated in September 1944.

3. Types of Targets - The Ground to Air Pilotless aircraft will be suitable for use against high altitude aircraft.

4. Limitations - Limitations have not been determined to date.

5. Status of Development - The project is still in the preliminary study stage. Preliminary type specifications are now under preparation. As soon as funds are available, action will be taken to initiate a contract for a second phase of the complete development.

1 of 2

SECRET

X-132461-A4-7

~~SECRET~~

GROUND TO AIR PILOTLESS AIRCRAFT

SUMMARY (Cont'd). 1B-2.1
1 October 1945

b. Hq. AAF Comments -

a. The New York Ordnance District is now negotiating a contract with the Bell Telephone Laboratories for a ground-to-air missile of the characteristics proposed by the Bell Telephone Laboratories in their preliminary report of 14 May 1945. This contract will probably include the following:

(1) Three to four years for flying models.

(2) A cost of approximately \$1,500,000.00 per year, involving direct participation of approximately sixty (60) Bell Telephone Laboratories scientists, sixty (60) BTL miscellaneous personnel, indirect participation of approximately sixty (60) BTL miscellaneous personnel, and participation of subcontractors.

(3) A completely integrated contract on the whole project, including launching, aerodynamics, electronics and propulsion.

b. The final Bell Telephone Laboratories report on their study will be distributed about 15 July 1945.

c. The Army Air Forces will not proceed with any contract negotiations until the Boeing study is complete, and a report submitted. The date for this report is now planned as 27 August 1945.

2 of 2

~~SECRET~~

L-137461-A-3

REEL - C

74

A.T.I.

2418

SECRET

TITLE: Ground to Air Pilotless Aircraft

ATI- 2418

AUTHOR(S): U.S. Air Materiel Command

(Dayton, O.

EDITION

ORIGINATING AGENCY: Air Materiel Command, Wright-Patterson Air Force Base,

ORIG. AGENCY NO.

PUBLISHED BY: (Same)

AAF-MD-E 98-1

PUBLISHING AGENCY NO.

DATE	DOC. CLASS.	COUNTRY	LANGUAGE	PAGES	ILLUSTRATIONS
Oct '45	Secr.	U.S.	Eng.	2	(None)

ABSTRACT:

The design and control of a ground-to-air pilotless aircraft is discussed. It is capable of destroying a very heavy bombardment aircraft traveling at a speed of 600 mph at an altitude of 60,000 ft desired or 40,000 ft required. It is expected to employ a jet-assisted take-off unit and be rocket or jet-propelled after launching. Radar seemed to be the most promising control system.

DISTRIBUTION: Copies of this report obtainable from Air Documents Division; Attn: MCIDXO

DIVISION: Guided Missiles (1)

SUBJECT HEADINGS: Missiles, Guided - Design (62909);

SECTION: Design and Description (12)

Missiles, Guided - Assisted launching (62550)

ATI SHEET NO.: S-1-12-39

Air Documents Division, Intelligence Department
Air Materiel Command

AIR TECHNICAL INDEX

SECRET

Wright-Patterson Air Force Base
Dayton, Ohio

SECRET

TITLE: Ground to Air Pilotless Aircraft

AUTHOR(S): U.S. Air Materiel Command

(Dayton, O.

ORIGINATING AGENCY: Air Materiel Command, Wright-Patterson Air Force Base,

PUBLISHED BY: (Same)

ATI- 2418

REVISION

ORIG. AGENCY NO.

AAF-MD-E 98-12-2

PUBLISHING AGENCY NO.

DATE	DOC. CLASS.	COUNTRY	LANGUAGE	PAGES	ILLUSTRATIONS
Oct '45	Secr.	U.S.	Eng.	2	(None)

ABSTRACT:

The design and control of a ground-to-air pilotless aircraft is discussed. It is capable of destroying a very heavy bombardment aircraft traveling at a speed of 600 mph at an altitude of 60,000 ft desired or 40,000 ft required. It is expected to employ a jet-assisted take-off unit and be rocket or jet-propelled after launching. Radar seemed to be the most promising control system.

DISTRIBUTION: Copies of this report obtainable from Air Documents Division; Attn: MCIDXD

DIVISION: Guided Missiles (1)

SUBJECT HEADINGS: Missiles, Guided - Design (62909);
Missiles, Guided - Assisted launching (62550)

SECTION: Design and Description (12)

ATI SHEET NO.: 8-1-12-39

Air Documents Division, Intelligence Department
Air Materiel Command

AIR TECHNICAL INDEX

SECRET

Wright-Patterson Air Force Base
Dayton, Ohio